

Westinghouse

ELECTRIC CORPORATION



AIR ARM BUILDING

PHONE: SOUTHFIELD 1-1000
FRIENDSHIP INT'L AIRPORT
BOX 746, BALTIMORE 3, MD.

18 September 1958

DPS-4329
COPY 1 OF 2

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SUBJECT: Contract FL-3011 - Tools & Test Equipment

Enclosure (1): Three copies Manufacturing Tooling
Enclosure (2): Three copies Test Department Tooling
Enclosure (3): Three copies Engineering Test Equipment

Dear Dan:

Enclosures 1, 2, and 3 list tools and test equipment associated with the subject contract.

The Manufacturing tools listed in Enclosure 1 are estimated at approximately \$56,000 based on the total manufacturing tool costs recorded by our Accounting Department.

The Test Department tooling listed in Enclosure (2) is estimated at approximately \$20,500 based on estimated costs for such items before fabrication. It is to be noted that the test equipment listed includes only a small portion of the test equipment required to test the equipment delivered under the subject contract. Most of it was borrowed from other contracts for similar equipment and modified as necessary to test equipment of the configuration required by this program. Since the borrowed test equipment now modified belongs to other CPFF contracts it has not been listed under this contract. However, the cost of modifying this test equipment was charged to this contract. This accounts for the difference between about \$73,000 which was charged to the contract for all shop test equipment and the estimated value of Enclosure 2 of \$20,500.

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YOU CAN BE SURE... IF IT'S Westinghouse

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The Engineering Department Test Equipment,
Enclosure 3, is estimated at \$5,800.

As we have indicated previously we may
have a continuing need for a number of these tools and
hope that a suitable arrangement can be made whereby
they will continue to be available.

Sincerely yours,

[Redacted Signature]

Sales Engineer

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MANUFACTURING TOOLING

The following APQ-56 tooling was made on the following Westinghouse order numbers: AAD-30158, 30201, 30213, 30367 and 30243.

<u>Tool Number</u>	<u>Description</u>	<u>Tool Number</u>	<u>Description</u>
1 JA-7887TL2A	Die	2JB-5271TXB	Silk Screen
2JA-5490TLA-2	Form Tool	1JB-5888TKC	Lay Out Temp.
2JA-6073TLA	Silk Screen	2JC-1271TLB	Silk Screen
2JA-6152TLA	Silk Screen	2JC-1271LT2B	Silk Screen
2JA-6152T2A	Silk Screen	2JC-1545TLA	Dieple Die
2JA-6170TLA	Steel Rule Die	2JC-1714TXA	Silk Screen
2JA-6170T2A	Steel Rule Die	2JC-1714TXB	Silk Screen
2JA-6173TXA	Silk Screen	2JC-1785TLA	Broach
2JA-6177TXA	Swage Tool	2JC-1785TLB	Casting Mold
2JA-6177TXB	Stake Tool	2JC-1785TLC	Mill Fixt.
2JA-6177TXC	Silk Screen	2JC-1785TLD	Broach Fixture
2JA-6180TXA	Anvil	2JC-1785TLE	Boring Fixture
2JA-6183TLA	Bushing	2JC-1785TLG	Mill Fixture
2JA-6190TLA	Holding Fixture	2JC-1785TLF	Dr. Fixture
2JA-6190TLB	Silk Screen	2JC-1793TLA	Silk Screen
2JA-6191TLA	Silk Screen	2JC-1794TLA	Silk Screen
2JA-7758TXA	Silk Screen	2JC-3292TXA	Silk Screen
2JA-7758TXB	Silk Screen	2JC-3292TXA	Spinning Tool
2JA-7759TXA	Silk Screen	2JC-3292TXB	Silk Screen
2JA-7759TXB	Silk Screen	2JC-3310TLA	Dr. Jig
2JA-7760TXA	Silk Screen	2JC-3314TXA	Silk Screen
2JA-7760TXB	Silk Screen	1JD-7433TLE	Carrying Case
2JA-7761TXA	Silk Screen	1JD-7469TLA	Slotting Die
2JA-7761TXB	Silk Screen	1JD-7469TLB	Slotting Die
2JA-7762TXA	Silk Screen	1JD-7469TLC	Mill Fixt.
2JA-7762TXB	Silk Screen	1JD-7469TLD	Dr. Jig
2JA-7767TLA	Form Tool	1JD-8855TLA	Special Form Cutter
2JB-2696TLA	Mandrel	1JD-8949TLA	Dr. Jig
2JB-2696TLE	Step Chuck	1JD-9022TXA	Silk Screen
2JB-2698TLA	Lathe Mandrel	1JD-9031TLA	Pattern Equip.
2JB-3686TLA	Silk Screen	1JD-9044TLA	Pattern Equip.
2JB-3715T2A	Plaster Mold	1JD-9031TLB	Face Plate Fixt.
2JB-4158TLA	Silk Screen	1JD-9044TLB	Mill Fixt.
2JB-4191TLA	Silk Screen	1JD-9044TLC	Holding Fixt.
2JB-4205TXA	Silk Screen	1JD-9044TLF	Dr. Jig
2JB-4205TXB	Holding Fixture	1JD-9097TXA	Mill Fixture
2JB-4231TLA	Silk Screen	1JD-9097TXA	Mill Fixture
2JB-4819TLA	Silk Screen	1JD-9097TXB	Silk Screen
2JB-4823TLA	Silk Screen	1JD-9112TLA	Pattern
2JB-4954TXA	Silk Screen	1JD-9857TXB	Silk Screen
2JB-5271TXA	Silk Screen	1JD-9894TXA	Dr. Temp.

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<u>Tool Number</u>	<u>Description</u>	<u>Tool Number</u>	<u>Description</u>
1JD-9896TXA	Silk Screen	1JA-2731TSDA	Spinning Tool
1JD-9951TLA	Bend. Block	2JB-3869TLA	Steel Rule Die
1JD-9951TXA	Silk Screen	2JB-3887TXA	Silk Screen
1JD-9951TXB	Silk Screen	2JB-4060TLA	Form Tools
1JH-5805TXA	Special Clamp	2JB-4067TXA	Silk Screen
1JH-5805TXB	Assem. Fixt.	2JB-4067TXB	Silk Screen
1JH-5875TXB	Algin. Tool	2JC-1618TLA-2	Pattern
1JH-5875TXC	Spec. Handling Strap	2JC-1623TXA	Silk Screen
1JH-5881TXC	Dr. Temp.	2JC-1623TXB	Silk Screen
1JH-5888TXD	Loc. Tool	2JC-1623TXC	Silk Screen
1JH-5888TXF	Dr. Temp.	2JC-1624TLA	Silk Screen
1JH-5888TXG	Dr. Temp.	2JC-1624TXA	Silk Screen
1JH-5888TXH	Spec. Carbide C Sink	2JC-1626TLA	Silk Screen
1JH-5888TXK	Dr. Temp.	2JC-1689TXA	Brazing Fixt.
1JH-5888TXL	Dr. Temp.	2JC-1709TLA	Silk Screen
1JH-5893TXB	Dr. Temp.	1JD-6745TXA	Silk Screen
1JH-5893TXF	Aligning Temp.	1JD-8909TLA	Silk Screen
Mec. 2C-1545	Flat Pattern Layout	1JD-8916TXA	Silk Screen
Meb. 108871-1	Flat Pattern Layout	1JD-8936TXA	Silk Screen
Meb. 108871-2	Flat Pattern Layout	1JD-8951TLA-2	C Bore Pilot
Mec. 2C-1545	Flat Pattern Layout	1JD-8951TLB-2	C Bore Pilot
2JA-5595TLA	Silk Screen	1JD-8958TXA	Silk Screen
2JB-3819TLA	Silk Screen	1JH-5849TLA	Pattern
2JC-1659TXA	Silk Screen	1JH-5855TXA	Silk Screen
2JC-1660TLA	Silk Screen	1JH-5860TXA	Wiring Form Board
2JC-1264TLE	Back Spot Face Tool	MEA 603R020	Data Sheet
2JC-1264TLF	Dr. Jig	MEC 503R050	Flat Pattern Layout
2JC-1264TLH	Lathe Fixture	MEC 503R050	Flat Pattern Layout
2JC-1789TLA	Forging Die	MED 406R083	Flat Pattern Layout
2JC-1790TLA	Forging Die	MED 406R083	Flat Pattern Layout
2JC-1796TLB	Internal Form Tool	MED 403R020	Flay Pattern Layout
2JC-1796TLD-2	Internal Form Tool	306R103TLA	Hillver Tape
2JC-1796TLE	Dr. Temp.	306R103TLB	Silk Screen
2JC-1796TLF	Dr. Temp.	406R083TXA	Silk Screen
2JC-1796TLG-2	C Bore Pilot	406R086TLA	Hillver Tape
2JC-1796TLH	Dr. Temp.	503R069TLA	Hillver Tape
2JC-1796TLJ	Mandrel	503R069TLB	Silk Screen
1JD-9040TXA	Staking Tool	603R022TLA	Wied. Temp.
1JD-9040TXB	Aligning Tool	603R026TXA	Silk Screen
2JB-5259TXA	Silk Screen	703R019TXA	Silk Screen

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<u>Tool Number</u>	<u>Description</u>	<u>Tool Number</u>	<u>Description</u>
1JD-9784TTL	Wiper Block	2JB4120TLA	Silk Screen
1JD-9784TT2	Follow Block	MEB2B2692	Flat Pattern Layout
2JA-5665TLA	Silk Screen	306R033TLA	Silk Screen
2JA-5667TXA	Silk Screen	306R073TLA	Silk Screen
2JB-4853TXA	Silk Screen	306R100TLA	Silk Screen
2JB-4976TLA	Silk Screen	306R101TLA	Silk Screen
1JD-8932TXA	Silk Screen	406R129TXB	Silk Screen
1JD-8933TLA	Silk Screen	503R031TXB	Silk Screen
1JD-8850TLA	Wied. Temp.	2JC1269TXB	Silk Screen
1JH-5854TXA	Wiring Form Board	406R128TXB	Mill Fixt.
603R030 TXA	Silk Screen	2JA5686TXA	Alignment Tool
2JB-3844TLA	Silk Screen	2JA6072TLA	Hillver Tape
MED-10-9866	Flat Pattern Layout	2JA7352TLA	Hovia Die
MEB-2B-5256	Flat Patter Layout	2JB3849T2A	Silk Screen
2JB-5610TXA	Loc. Fixt.	2JC1685TXC	Silk Screen
2JB-5610TXB	Silk Screen	2JC1779TXA	Pressure Test Fixt.
2JB-5610TXC	Silk Screen	2JB2686TLA	Silk Screen
2JC-1791TXA	Camera Alignment Tool	1JC3980TXA	Brazing Fixt.
1JC-8016TXA	Metal Mold	1JC3980TXB	Silk Screen
1JC-8016TXB	Cut-Off Fixt.	1JC3980TXC	Silk Screen
2JC-1284TXB	Silk Screen	2JC3293TXA	Silk Screen
2JC-1284TXC	Silk Screen	2JC3294TLA	Punch & Die
1JD-8932TXA	Silk Screen	2JC3294TLB	Silk Screen
1JD-8932TLA	Silk Screen	2JC3295TLA	Silk Screen
1JD-9850TLH	Wied. Temp.	2JC3298TLA	Silk Screen
1JH-5854TXA	Wiring Board	1JD9100TLB	Boring Bar
603R030TXH	Silk Screen	1JD9028TLB	Silk Screen
2JB-3844TLA	Silk Screen	1JD9063TXA	Silk Screen
MEB-2B5256	Flat Pattern Layout	1JD9100TLA	Face Plate Fixt.
MED-2B5256	Flat Pattern Layout	1JD9850TLA	Wied. Temp.
2JB5610TXA	Loc. Fixt.	1JD9850TLB	Silk Screen
2JB5610TXB	Silk Screen	1JD9893TLA	Wied. Temp.
2JB5610TXC	Silk Screen	1JD9894TLA	Wied. Temp.
2JC1791TXA	Camera Alignment Tool	1JD9894TXB	Silk Screen
2JA6104TXA	Silk Screen	1JD9896TXB	Silk Screen
1JC8016TXA	Split Metal Mold	1JA2632T511A	Steel Rule Die
1JC8016TXB	Cut-Off Fixt.	2JA5604TLA	Steel Rule Die
2JC-1284TXB	Silk Screen	2JA5604T2A	Steel Rule Die
2JC-1284TXC	Silk Screen	2JA5604T3A	Steel Rule Die
1JD4944TLA	Dr. Plate	2JA5648TLA	Steel Rule Die
1JH5783TXB	Silk Screen	2JA5648TLA	Steel Rule Die

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<u>Tool Number</u>	<u>Description</u>	<u>Tool Number</u>	<u>Description</u>
2JA6012TLA	Steel Rule Die	2JC1750TLB	Dr. Jig
2JB3878TLA	Silk Screen	1JD8882TXA	Silk Screen
2JB3878T2A	Silk Screen	1JD9095TXA	Silk Screen
2JB4087TLA	Steel Rule Die	2JB3662TXB	Silk Screen
2JB4110TLA	Steel Rule Die	2JB3662TXC	Silk Screen
1JC7726TLA	Silk Screen	1JD7494TXB	Silk Screen
2JA7741TLB	Gear Shape Flxt.	1JD8965TXA	Silk Screen
2JA7741T1C	Silk Screen	1JD8973TXA	Silk Screen
2JA7741T1D-2	U/C Tool	1JD9857TXA	Loc. Tool
2JA7742T1D-2	U/C Tool	1JD7433TLB	Extension Arm
2JA7742T1C	Silk Screen	1JA8456T6A	Dr. Temp.
2JA7744TXAA	Spacer	2JA7741TLA	Pantograph Temp.
2JA7745TXA	Spacer	2JA7742TLA	Pantograph Temp.
2JA7745TLA	Fly Cutting Tool	2JA7742T1E	Steop Collet
2JA7749TLA	Hillver Tape	2JC-1545TLA	Dimple Die
2JA7750TLA	Hillver Tape	2JC1623TXC	Silk Screen
2JB5251TXA	Silk Screen	2JC1683TXA	Silk Screen
2JB5252TLA	Silk Screen	2JC1685TXB	Loc. Flxt.
2JB5257TLA	Silk Screen	2JC1709TLA	Silk Screen
2JC3814TLA	Silk Screen	1JD4650TXB	Silk Screen
2JC3814TLB	Steel Die	1JD7484TXA	Silk Screen
2JC3815TXA	Special Back Spot Facer	1JD8958TXA	Silk Screen
2JC3821TLA	Silk Screen	1JD8997TXA	Silk Screen
2JC3821TLB	Hillver Tape	1JD9043TLA-2	Carrying Case
2JC3824TLA	Silk Screen	1JD9074TXA	Silk Screen
1JD9947TLA	Silk Screen	1JD9074TXB	Silk Screen
MEA21B5252	Hillver Data Sheet	1JD9850TLB	Silk Screen
1JD9037TXA-6	Silk Screen	1JD9850TLB	Silk Screen
406R116TLB	Hillver Tape	1JD9893TXA	Silk Screen
406R116TLA	Silk Screen	1JD9918TXA	Silk Screen
406R125TXA	Silk Screen	1JH5805TXB	Assem. Flxt.
2JB3891TLA	Silk Screen	1JH5805TXC	Handling Container
2JB4073TLA	Silk Screen	1JH5830TXA-3	Wiring Flxt.
1JD8971TXA	Silk Screen	1JH5881T1L	Dr. Temp.
MED10-9856	Flat Pattern Layout	1JH5888TXA-2	Mounting Cradle Ass.
2JA-7286T1L	Holding Fixture	1JH5888TXA-1.2	Locking Bands
2JC1652TLA	Silk Screen	1JH5888TXM	Handling Container
2JC1656TLA	Steel Rule Die	503R031TXA	Brazing Flxt.
2JC1750TLA	Artwork Tooling	703R019TXA	Silk Screen

TEST DEPARTMENT TOOLING

Tools built by Test Facilities on following Westinghouse Orders

<u>Description</u>	<u>Tool Number</u>
<u>3C - AAD-30201</u>	
Navigation Indicator	66F1JD9918TFB1
10KV Power Supply	66F603R029TFD1
Recorder Panel	66F1JH4118TFB1 Sub 2
<u>3C - AAD-30213</u>	
C617, C658 Molded Unit Panel	AF1JD9065TFB1
C618 & C555 Molded Unit Panel	AF1JD9063TFB1
H619 Molded Unit Panel	AF1JD9064TFB1
B634, C656 Molded Unit Panel	AF1JD9089TFB1
<u>3C - AAD-30158</u>	
100 KW Power Supply	66FLJH5808TFB1Sub 2
FT Adapter Unit	66F1JD8854TFB1
Sync. Alignment Control Panel	66FLJH5813TFB1
Three Phase Saturable Reactor	66F1JB6490TFB1
H1 Power Breakdown	66F1JD5805TFB1

ENGINEERING TEST EQUIPMENT

Procured on Westinghouse General Orders AAD-30158, 30175, 30201,
30205, 30213, 30230 and 30243

<u>Qty.</u>	<u>Description</u>	<u>Part Number</u>
2	Photo Cell Test Set	(Engrg. Lab Fabricated)
1	Rotary Table	Benson - BH-9
1	Generator, AC	Model 31405
1	Regulator	Model 51405
1	Pressurized Horn	2JC2445-1
2	Resolution Test Sets	WECORP 603R051G01
1	Attenuator	FR Machine Work S/N 117 Type U162F
1	Thermister	Microwave P525 S/N 6